

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/053623

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A61K39/116 A61K39/295

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal, BIOSIS, EMBASE, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 94/09114 A (AKZO NOBEL NV ; STORM PAUL KAREL (NL); EMPEL PAUL CORNELIUS MARIA VAN) 28 April 1994 (1994-04-28) cited in the application page 13, paragraph 2 page 14, paragraph 2 - paragraph 3 claims 7,8	1-15
X	US 2003/149255 A1 (LOPES VANESSA ET AL) 7 August 2003 (2003-08-07) paragraphs '0005!, '0038!, '0040!, '0049! ----- -/--	1-15

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

12 May 2005

Date of mailing of the international search report

31/05/2005

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>BUCHMEIER NANCY A ET AL: "Recombination-deficient mutants of Salmonella typhimurium are avirulent and sensitive to the oxidative burst of macrophages" MOLECULAR MICROBIOLOGY, BLACKWELL SCIENTIFIC, OXFORD, GB, vol. 7, no. 6, 1993, pages 933-936, XP000926294 ISSN: 0950-382X abstract</p>	8
A	<p>GUERRY P ET AL: "DEVELOPMENT AND CHARACTERIZATION OF RECA MUTANTS OF CAMPYLOBACTER JEJUNI FOR INCLUSION IN ATTENUATED VACCINES" INFECTION AND IMMUNITY, AMERICAN SOCIETY FOR MICROBIOLOGY, WASHINGTON, US, vol. 62, no. 2, February 1994 (1994-02), pages 426-432, XP000992851 ISSN: 0019-9567 abstract</p>	8

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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Although claim 12 is partially directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/EP2004/053623

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9409114	A	28-04-1994	AT 146818 T	15-01-1997
			DE 10399019 I1	18-09-2003
			DE 69306934 D1	06-02-1997
			DE 69306934 T2	28-05-1997
			DK 625190 T3	16-06-1997
			WO 9409114 A1	28-04-1994
			EP 0625190 A1	23-11-1994
			ES 2098788 T3	01-05-1997
			GR 3022756 T3	30-06-1997
			HU 69794 A2	28-09-1995
			JP 7502174 T	09-03-1995
			NL 300121 I1	02-06-2003
			US 5576003 A	19-11-1996
			US 6114131 A	05-09-2000
			US 5925361 A	20-07-1999
			ZA 9307652 A	04-05-1994
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US 2003149255	A1	07-08-2003	NONE	
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